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TPT FUEL FACILITY GAP ANALYSIS

SITES DCT PIER 1 TPT DIESEL DEPOTS

PURPOSE: MAINTENANCE AND HOUSEKEEPING

PURPOSE

1. To provide feedback with the status of the TPT fuel depots with regard to their conditions with regard to maintenance and housekeeping. A request was made by the energy managers at TPT to have the fuel facilities fixed so as to reduce environmental pollution through leaks and worn out equipment

BACKGROUND

2. DCT 1 is a fuel depot, located at the port of Durban. The original installation was by the oil company and managed by them. The requirement and need for the facility was to assist a few diesel run equipment and vehicles so as not to take them off the property for fuel. Due to the lack of maintenance by the oil company Transnet took a business decision to buy back all the facilities and maintain them.

   Transnet Fuel Solutions (TFS) assisted with managing the Fuel Facilities for the group and that included TPT.

DEPOT ASSETS

The site comprises of the following assets

1. 2 x 23 000lt underground diesel tanks
2. 1 x Prowalco single hose pump
3. Concrete slab
4. Operator office with power

DEPOT REPORT

The depot orders consistently approx. 1 x 23 000lt diesel per week. Currently refueling takes place during the day. There are 1 operators that work at the fuel depot. The depot refuels forklifts, generators and mobile bowsers. These mobile bowsers go to the machines and refuel them so as to optimize operations.

This site is in a very dangerous situation most especially for fuel theft and environmental incidents. The ocean is approx. 10-15mts away. The assumption is that one of the tanks may be leaking. In the event that it is, the diesel can easily make its way to the ocean thereby contaminating the ocean.

Recommendations

A complete redo of the facility. Putting in a 40 000lt self bunded containerised tank. The tank will be fitted with all the requirements of a kerb side pump and a coupling to receive fuel.

For improved management of fuel stock I recommend an improved fuel automation that would connect as follows

1. Record fuel received
2. Record fuel in the tank
3. Identify vehicles with driver and fuel attendant
4. Record KM's and liters received into vehicles
5. Same technology must be fitted onto the mobile bowser
6. This information should be visible by all stakeholders of the depot via a dashboard
7. This information must be captured by SAP

	
Site pic	Site pic
	
Pump condition	Drainage

Compiled by:

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